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(54) Title: FLAME RETARDANT POLYOLEFIN BLENDS

(57) Abstract: A Flame retardant composition and a process for the preparation thereof is disclosed. The blends of the invention are prepared by melt-mixing (i) a base polymer which is a polyolefin polymer or a blend of two polyolefin polymers (ii) melamine or its derivative such as melamine cyanurate or melamine phosphate (iii) a metal hydroxide, where the metal involved could be magnesium or aluminum and (iv) a compatibilizer, in a Buss co-kneader (or a twin screw extruder). The polyolefin blends of this invention exhibit flame retardancy by passing UL 94 V-0 test, with balanced mechanical Properties.